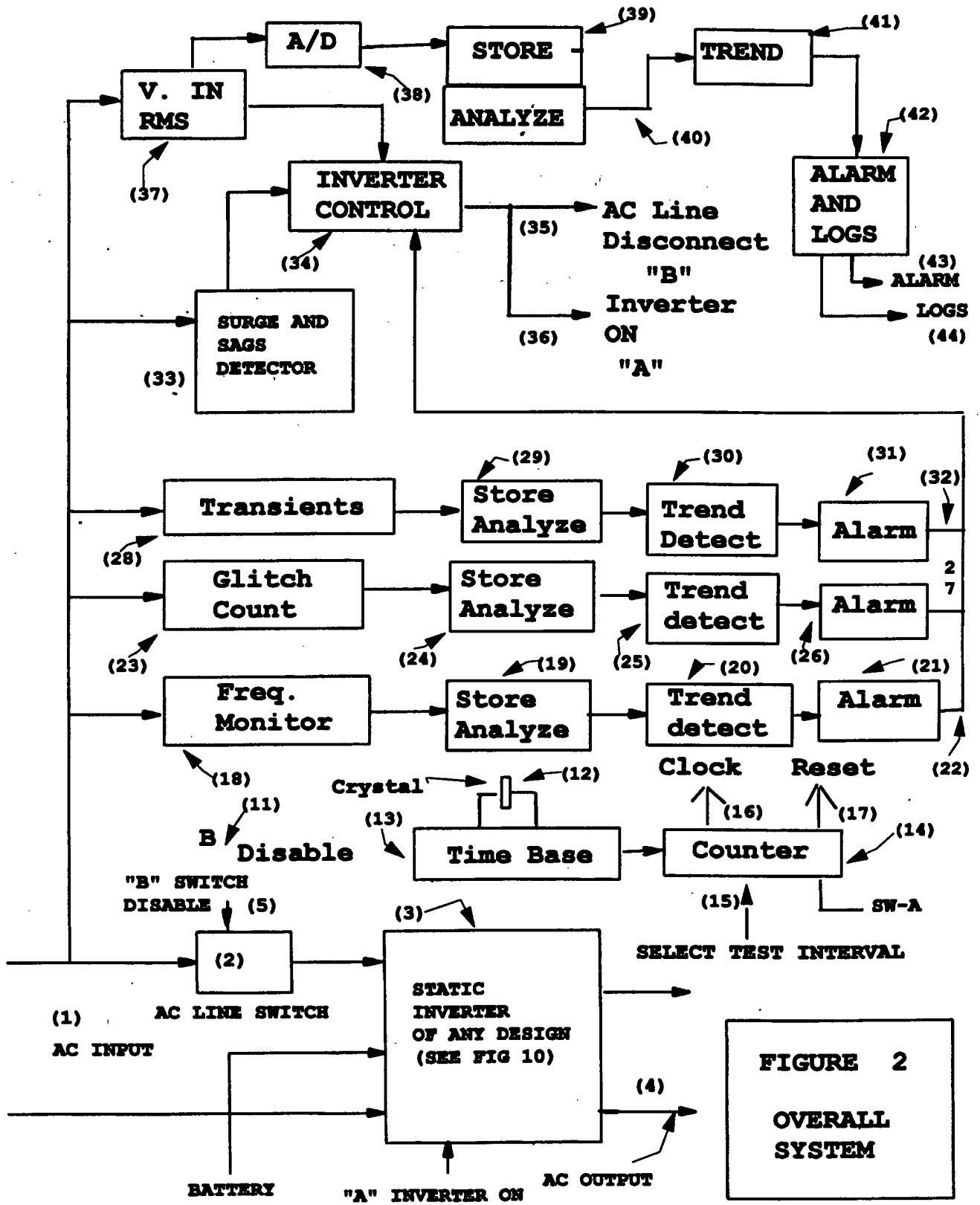


THE FERRORESONANT TRANSFORMER CAN BE USED AS A PRIMITIVE POWER CONDITIONER AND AS THE BASIS FOR AN UNINTERRUPTIBLE POWER SUPPLY.

FIGURE 1  
BASIC FERRORESONANT  
POWER CONDITIONER

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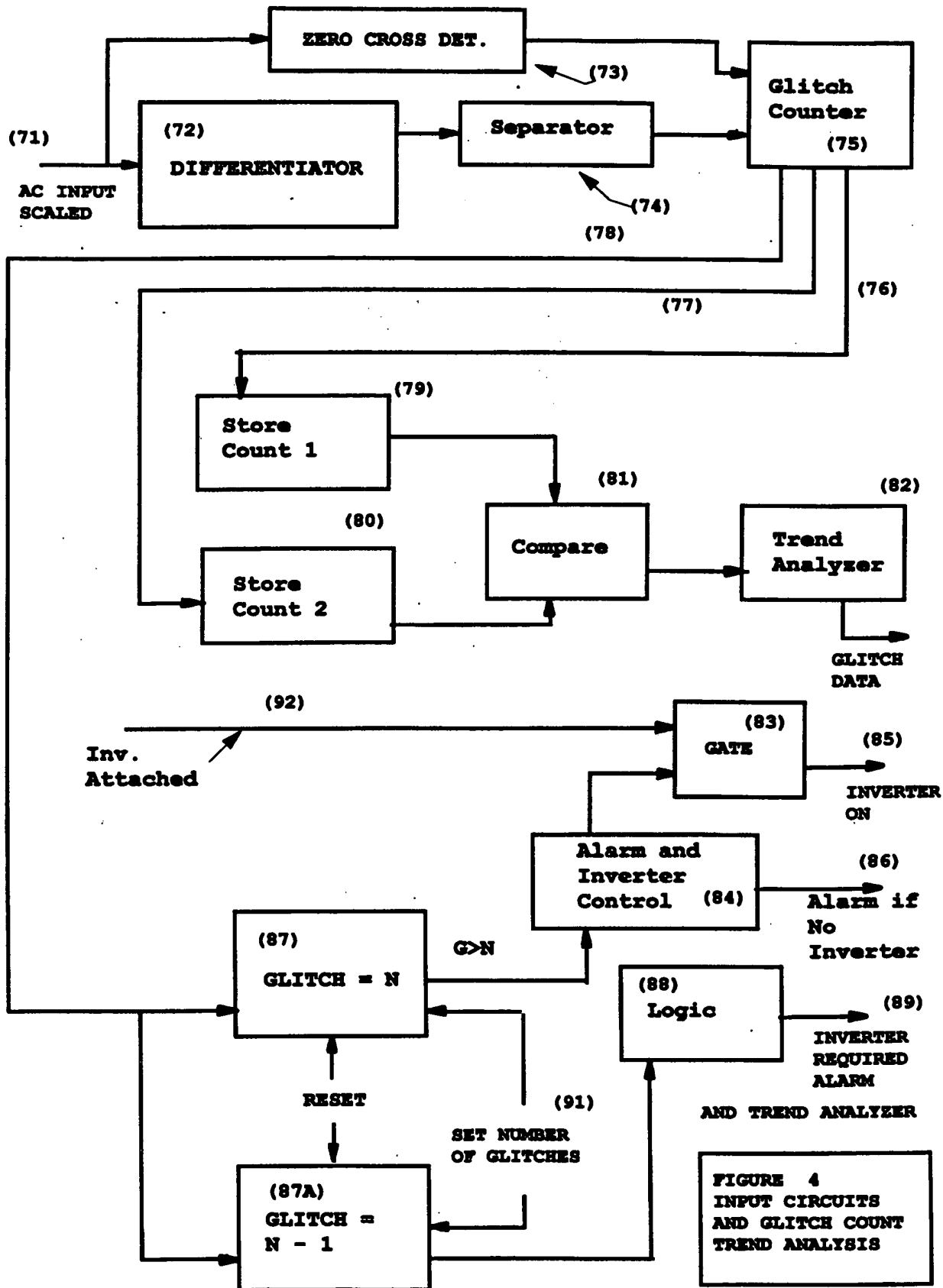
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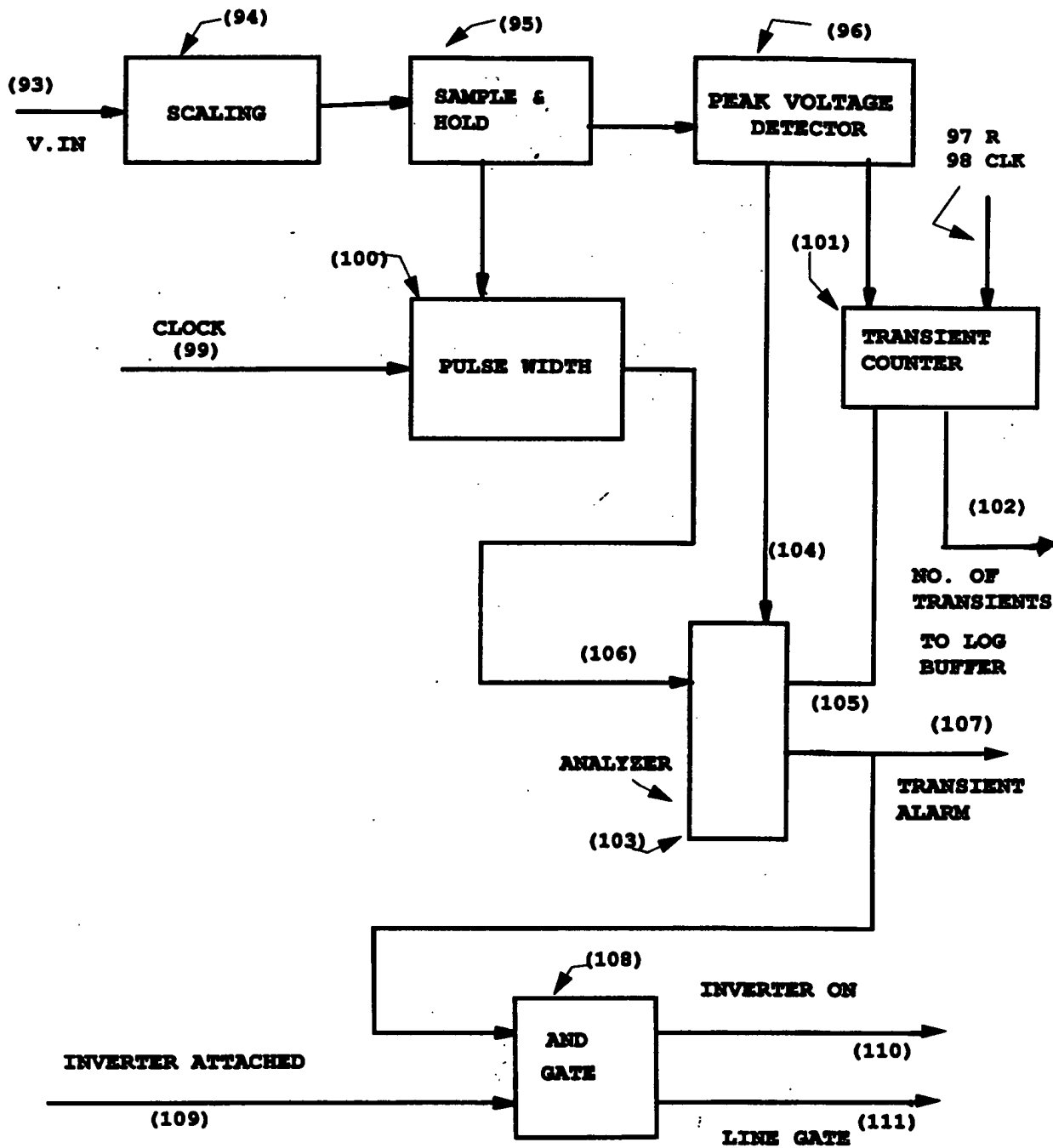
**FIGURE 2**  
**OVERALL**  
**SYSTEM**

**Figure 3**  
**Limit detectors**

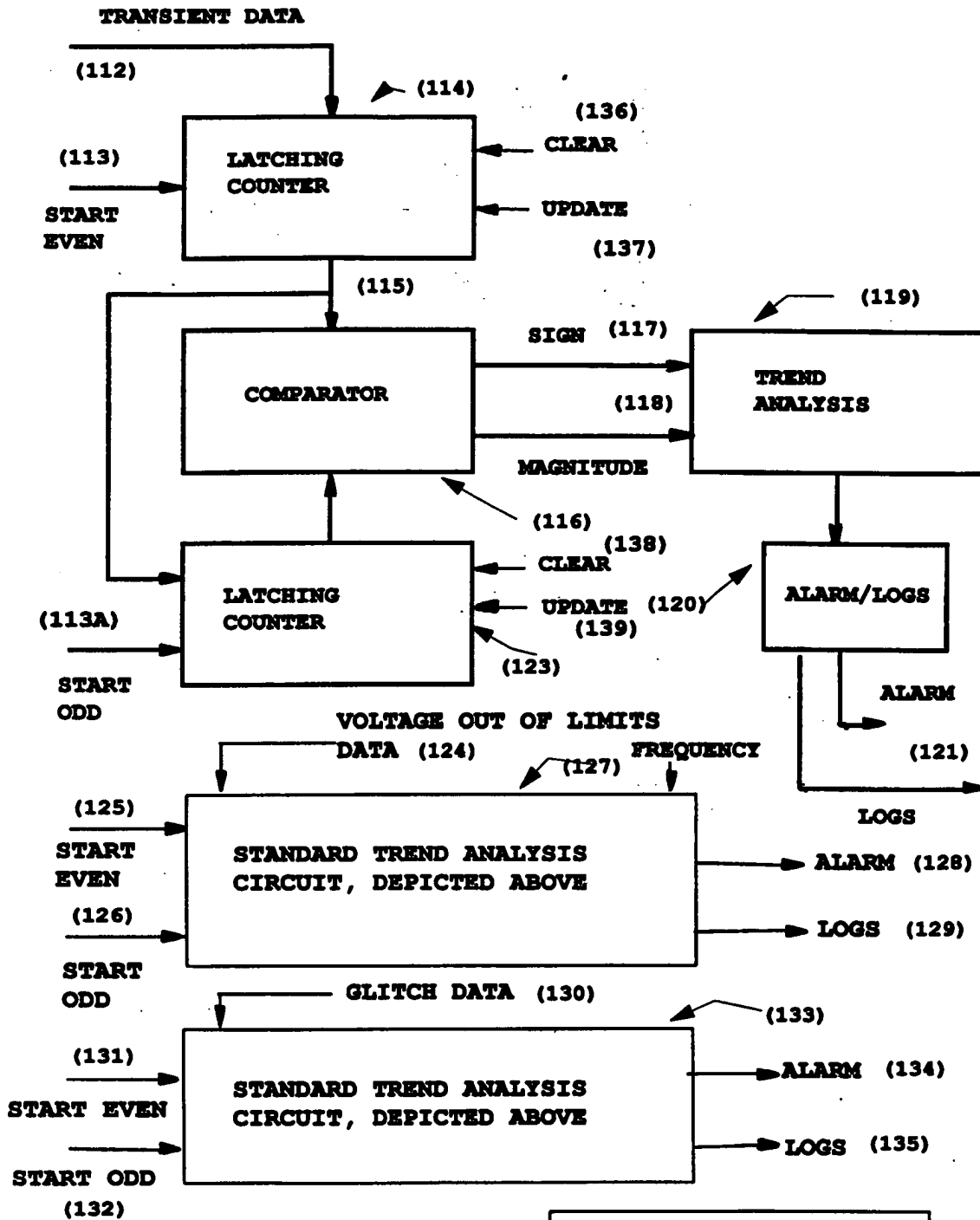
**Figure 3**  
**Limit detectors**



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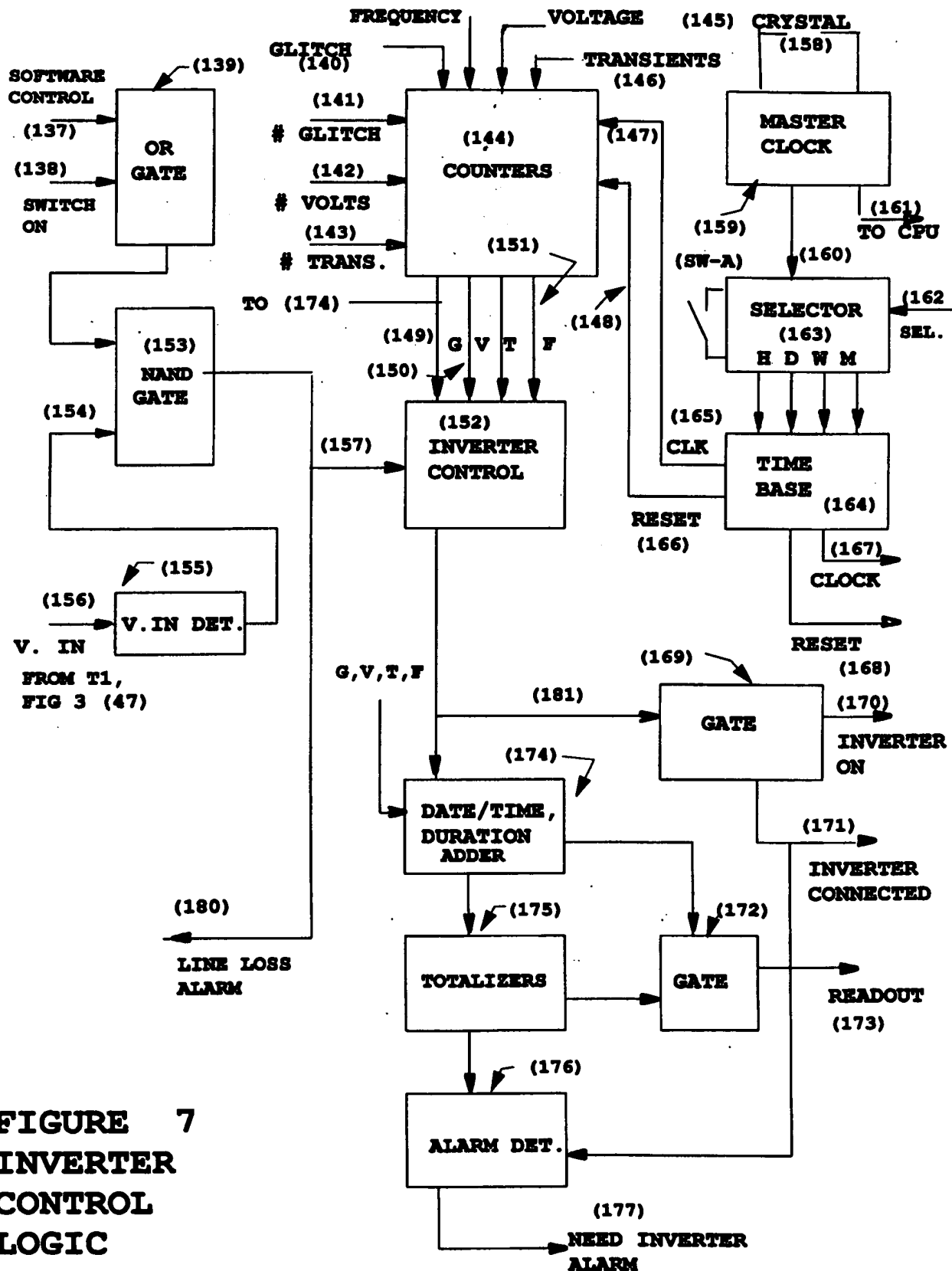


**FIGURE 5**  
**TRANSIENT**  
**CAPTURE**  
**CIRCUIT**

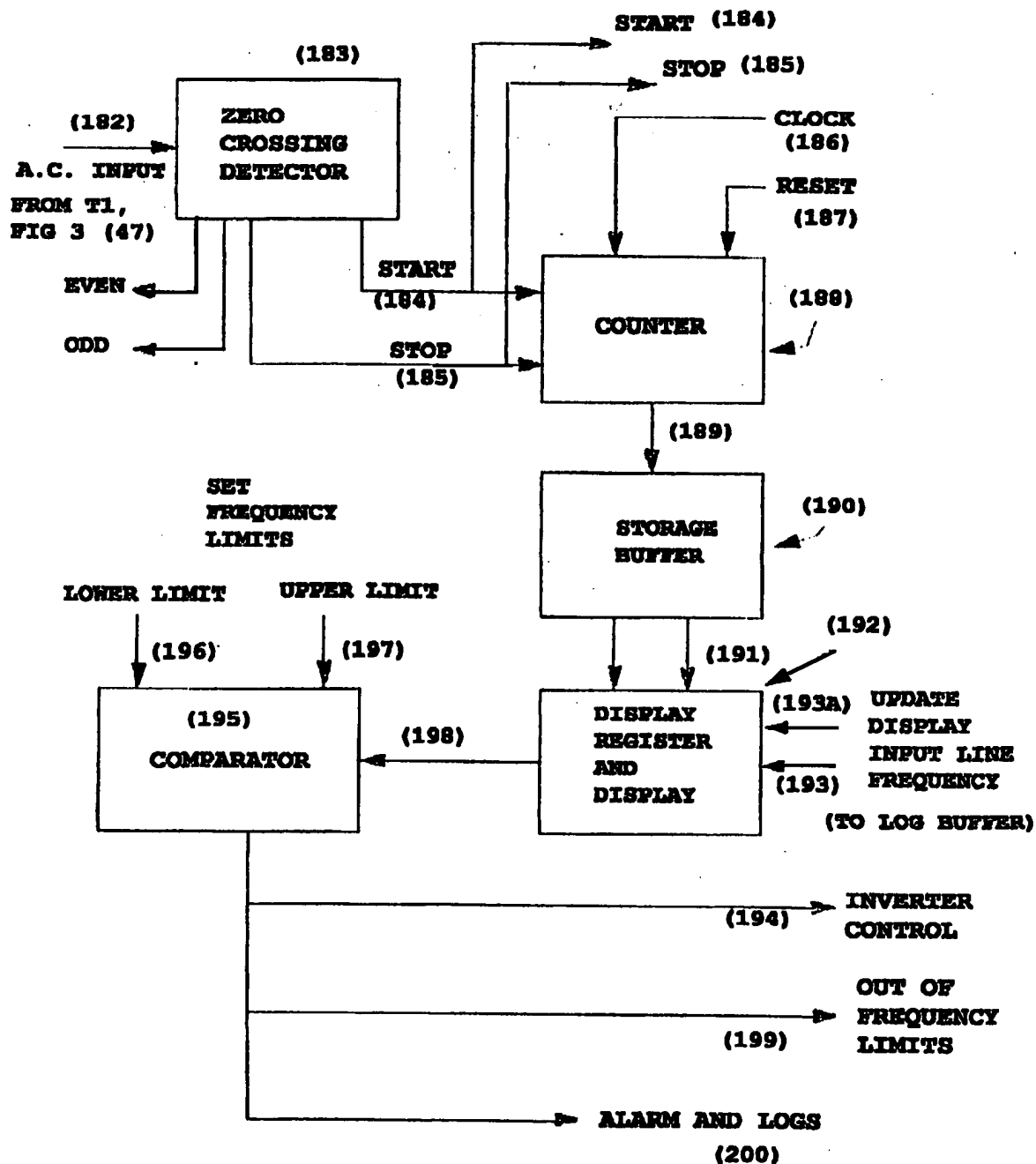


**FIGURE 6 -BASIC  
TREND ANALYSIS  
CIRCUITS**

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**FIGURE 7**  
**INVERTER**  
**CONTROL**  
**LOGIC**



**FIGURE 8**  
**FREQUENCY**  
**MEASUREMENT**



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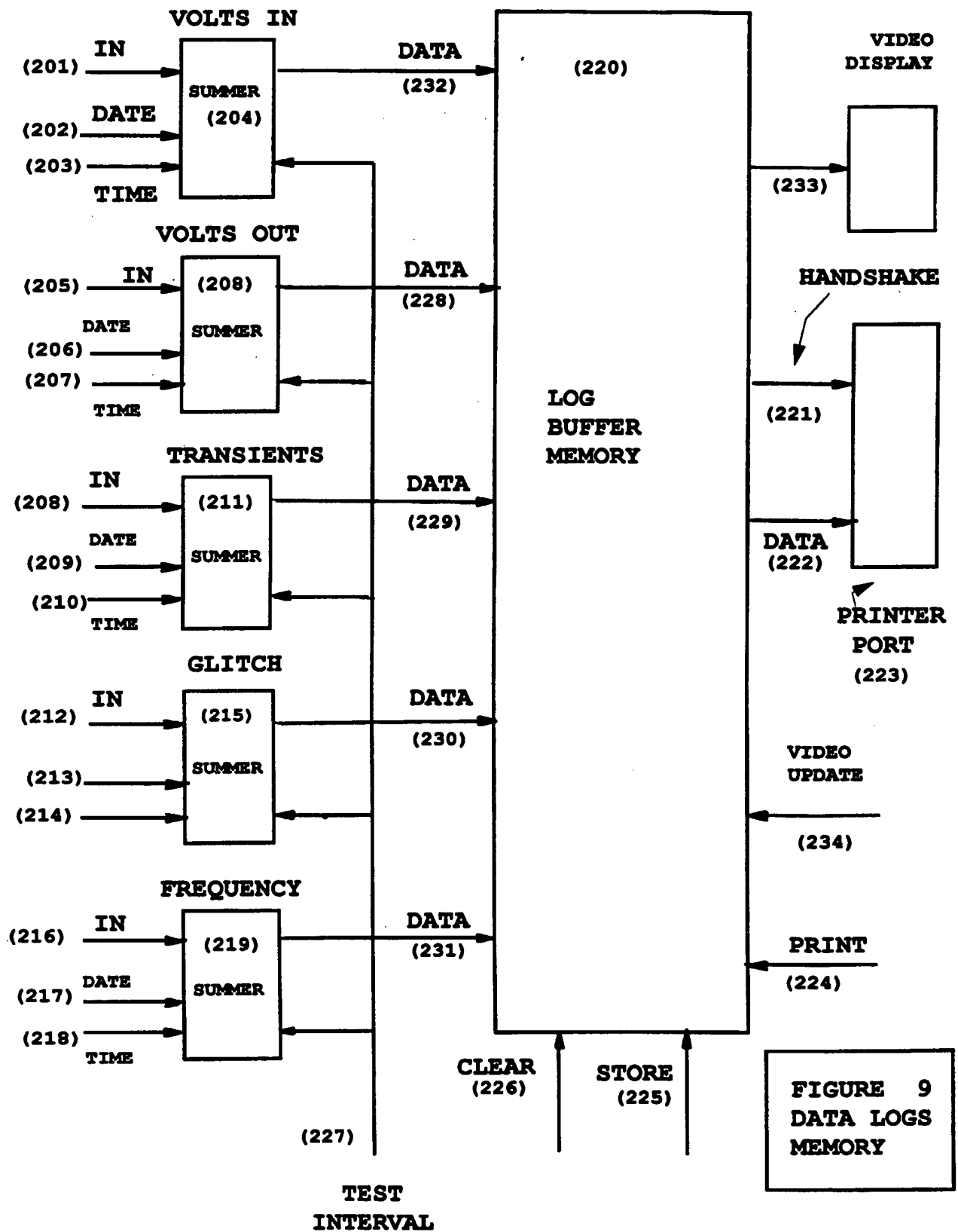


Diagram illustrating a power supply system with a magnetic core (CORE (1)).

The system includes the following components and connections:

- AC INPUT**: Connected to the top winding of the primary transformer.
- LINE SWITCH**: Connected to the top winding of the primary transformer.
- CONTROL**: Connected to the top winding of the primary transformer.
- PRIMARY**: The primary winding of the transformer.
- SECONDARY**: The secondary winding of the transformer.
- AC OUTPUT**: Connected to the secondary winding.
- RMS TO DC CONVERTER** (242): Connected to the AC output.
- SHUNT**: Connected between the secondary winding and the RMS to DC Converter.
- BATTERY CHARGER** (240): Connected to the internal winding of the primary transformer.
- INTERNAL WINDING**: The internal winding of the primary transformer.
- BATTERY CHARGER**: Connected to the internal winding.
- INVERTER** (241): Connected to the inverter winding of the primary transformer.
- INVERTER WINDING** (244): The inverter winding of the primary transformer.
- BATTERY** (243): Connected to the inverter winding.
- REGULATOR** (243): Connected to the secondary winding and the capacitor.
- CAPACITOR**: Connected to the secondary winding and the regulator.
- "TANK CIRCUIT"**: Connected to the secondary winding and the capacitor.
- CORE (1)**: The magnetic core of the transformer.

**FIGURE 10  
PREFERRED POWER  
CONDITIONER AND  
INVERTER CIRCUIT  
USING A  
FERRORESONANT  
TRANSFORMER**